

410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 60

39965586.y .....IISKEAKDLVAVMLEDADR-RDPDSIVVHFFLAGYMPSSDMTPKLRVEXPDNECFYNYPRNEEEEVENLLALRKECMCKSCEVGPWNEMQQVVRHVVWRMAAEKAGLTPPIPL  
32422413.y KPPF~~S~~TTDEYIR-RAKERD~~E~~WSPDATOKYNSLE~~K~~AVSMLADADM-RDPDTIVSHFFTSGYMPSSSDISLRLRSDPONPAFYD~~L~~SGPQAEDNLRLNVQEMCKECSVGFWCTQQFVFKNIWVREMAAEEEANGLTPVPIPL  
62326433.y KPPF~~A~~RQDVNTIYE-RIKCRD~~S~~PRFRDK-PTSDV~~I~~KKLIRD~~I~~SLDPLER~~S~~TTEID~~N~~YVDF~~G~~TPPS~~I~~STVSEMAP  
19114559.y KPPF~~D~~KEVKNTIYR-KKAN~~P~~SFP~~S~~NV-DISAP~~S~~NDLISSL~~T~~HDPS~~I~~R-SIDDIVD~~H~~B~~F~~HTGYMAS~~L~~PDEILHSM~~P~~  
25742783.m KPPF~~D~~ASL~~C~~ETYL-RIKKN~~E~~VSKT~~H~~-INPKN~~E~~YQX~~M~~Q~~T~~DP~~A~~R-TI~~E~~LN~~D~~FB~~F~~TS~~G~~Y~~P~~AR~~I~~PLC~~T~~CL~~I~~PP  
17541716.w SPPEF~~S~~RRVQET~~V~~Y-RIKKN~~D~~W~~V~~PE~~N~~-ASPTA~~N~~R~~L~~RD~~E~~PP~~D~~R~~R~~-TA~~E~~AV~~L~~FD~~E~~FF~~K~~TI~~E~~PT~~V~~PR~~Q~~OLH~~H~~EQ~~R~~  
22779889.m RPPPF~~D~~TTN~~C~~KE~~Y~~R-CIREAR~~T~~MP~~S~~-DLAPAKH~~L~~IA~~S~~ML~~E~~KNP~~P~~DR~~R~~-SDD~~D~~II~~R~~HD~~F~~FLG~~F~~TP~~D~~RL~~S~~SS~~C~~CH~~T~~VP  
13929172.m RPPPF~~D~~TTN~~C~~KE~~Y~~R-CIREAR~~T~~MP~~S~~-DLAPAKH~~L~~IA~~S~~ML~~E~~KNP~~P~~DR~~R~~-SDD~~D~~II~~R~~HD~~F~~FLG~~F~~TP~~D~~RL~~S~~SS~~C~~CH~~T~~VP  
PLK2.h RP~~P~~PF~~D~~TTN~~C~~KE~~Y~~R-CIREAR~~T~~MP~~S~~-DLAPAKH~~L~~IA~~S~~ML~~E~~KNP~~P~~DR~~R~~-SDD~~D~~II~~R~~HD~~F~~FLG~~F~~TP~~D~~RL~~S~~SS~~C~~CH~~T~~VP  
34870279.m SPPEF~~D~~AD~~C~~KE~~Y~~R-CIKQV~~N~~Y~~T~~LP~~A~~S-LSLPAR~~O~~LLA~~A~~IL~~R~~ASP~~P~~DR~~R~~-SIECII~~R~~HD~~F~~FLG~~F~~TP~~D~~RL~~P~~VS~~C~~CV~~T~~VP  
PLK3.h SPPEF~~D~~AD~~C~~KE~~Y~~R-CIKQV~~N~~Y~~T~~LP~~A~~S-LSLPAR~~O~~LLA~~A~~IL~~R~~ASP~~P~~DR~~R~~-SIECII~~R~~HD~~F~~FLG~~F~~TP~~D~~RL~~P~~IS~~C~~CV~~T~~VP  
23956070.m SPPEF~~D~~AD~~C~~KE~~Y~~R-CIKQV~~N~~Y~~T~~LP~~A~~S-LSLPAR~~O~~LLA~~A~~IL~~R~~ASP~~P~~DR~~R~~-SIECII~~R~~HD~~F~~FLG~~F~~TP~~D~~RL~~P~~VS~~C~~CV~~T~~VP  
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34865879.m RP~~P~~PF~~D~~TD~~V~~KL~~N~~EMP-AFLS~~R~~RE~~O~~D~~L~~H~~L~~OLLRN~~P~~DR~~R~~-SLS~~V~~HD~~H~~PE~~M~~EN~~P~~S-TK~~S~~KD~~L~~GT~~V~~ED~~S~~MD  
27501454.m RP~~P~~PF~~D~~TD~~V~~KL~~N~~EMP-AFLS~~R~~RE~~O~~D~~L~~H~~L~~OLLRN~~P~~DR~~R~~-SLS~~V~~HD~~H~~PE~~M~~EN~~P~~S-PK~~S~~KD~~V~~GT~~V~~ED~~S~~MD  
27501466.m RP~~P~~PF~~D~~TD~~V~~KL~~N~~EMP-TFS~~I~~IE~~A~~KD~~L~~H~~L~~OLLRN~~P~~DR~~R~~-SLS~~V~~HD~~H~~PE~~M~~EN~~P~~S-TK~~S~~KD~~L~~GT~~V~~ED~~S~~MD  
PLK4.h RP~~P~~PF~~D~~TD~~V~~KL~~N~~EMP-KV~~V~~LA~~D~~Y~~E~~MP-TFS~~I~~IE~~A~~KD~~L~~H~~L~~OLLRN~~P~~DR~~R~~-SLS~~V~~HD~~H~~PE~~M~~EN~~P~~S-TK~~S~~KD~~L~~GT~~V~~ED~~S~~MD  
21358073.f RP~~P~~PF~~D~~TD~~V~~STLN-KVVM~~S~~EY~~I~~MP-AH~~S~~LS~~E~~Y~~A~~D~~L~~LN~~L~~KK~~L~~PL~~E~~ER~~R~~TL~~E~~AV~~C~~HE~~M~~PC~~S~~NG~~G~~HS~~A~~PG~~A~~LN~~V~~F~~S~~QS~~M~~  
1jkk\_A AS~~P~~PF~~G~~DT~~K~~OE~~L~~A-NVS~~A~~VN~~E~~FE~~E~~DEFY~~V~~-SN~~S~~ALAKD~~I~~PL~~E~~ER~~R~~TL~~E~~AV~~C~~HE~~M~~PC~~S~~NG~~G~~HS~~A~~PG~~A~~LN~~V~~F~~S~~QS~~M~~  
2phk\_A SP~~P~~PF~~W~~R~~K~~QML~~M~~LR-MIM~~G~~N~~Q~~F~~G~~SP~~E~~W-DD~~S~~VT~~I~~KD~~L~~V~~S~~R~~F~~VL~~V~~Q~~P~~U~~K~~R~~P~~TA~~E~~AA~~A~~HF~~O~~Y  
1kwp\_A YPPF~~P~~TKN~~V~~ED~~I~~YK-MIKLN~~N~~W~~I~~PP~~E~~N-SE~~V~~SE~~E~~EE~~V~~KL~~M~~LL~~K~~TE~~P~~Q~~T~~TE~~E~~IF~~N~~WP~~I~~W~~M~~ST~~K~~Q~~P~~TP~~L~~LT~~E~~RV~~L~~KE~~D~~KE  
19075073.y VPPF~~P~~TKN~~V~~ED~~I~~YK-MIKLN~~N~~W~~I~~PP~~E~~N-CD~~C~~U~~S~~SE~~L~~LL~~T~~IT~~L~~IL~~N~~PL~~E~~ER~~R~~TL~~E~~SH~~H~~SH~~G~~KE~~E~~HF~~M~~KL~~Y~~NR~~N~~LM~~T~~TR  
lia8\_A ELP~~D~~OP~~S~~SD~~C~~QE~~Y~~S-DW~~E~~KK~~P~~LN~~P~~W~~K~~-DSA~~L~~ALL~~L~~LL~~V~~BP~~S~~AR~~E~~TD~~D~~KK~~D~~LY~~N~~PL~~K~~GG~~A~~K~~R~~PR~~V~~T~~S~~GG~~V~~  
24649331.f KMPF~~S~~ACKN~~V~~KE~~Y~~-AA~~M~~SGG~~T~~Y~~V~~KD~~M~~ES-RM~~P~~PF~~W~~AT~~L~~LL~~V~~BP~~S~~AR~~E~~TD~~D~~KK~~D~~LY~~N~~PL~~K~~GG~~A~~K~~R~~PR~~V~~T~~S~~GG~~V~~  
17538163.r RNP~~P~~KG~~L~~PT~~C~~CG-MSPN~~A~~R~~L~~VE~~C~~MM~~D~~DA~~K~~KR~~C~~PL~~C~~Q~~I~~V~~L~~S~~E~~MY~~N~~IN~~T~~NE~~N~~AV~~I~~S~~R~~E~~S~~RD~~G~~GR~~Q~~  
.....RS~~R~~EP~~V~~R~~S~~RS~~D~~DK~~S~~R~~G~~AL~~I~~R-SS~~S~~Q~~A~~H~~S~~GR~~A~~P~~L~~S~~N~~R~~P~~I~~H~~DR~~M~~STS

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 39965586.y STSQARKEEPEQAP-RN-LPDSAKPLPSQFAAQQRAGRTAKAPGTIRLQDREATAK QPSTVRSRRAKEADVVSVAPDVPPETLSSIPRSVSGQSLPAREQTLTIRGTT RSSRPQLTSSRTEPILRKASGSDVQPAATRSATPAAATQ-SNDQVSLFN-PELR  
 32422413.y QAEQQAKLTLSPQQPKQRVLAIDGGSRMVEHVSQPKPVDDLSNLACAS HANRGTTGLLRVP PPOSFAAQQRAGRPIATWSLGRSQTWPEFALSASSTSIRTRSSRREVPEPADALGSQFIRPTRSTRSYPTTRSAAVLPTEEFAPPIQSPVISTTQKQPEDKLSEFLSFPEAQY  
 6323643.y IDKLEEEYHQ-NRPFPLPHSPLSPGGTKQKYKEVVDIEAORRLNDLEARLARQAVLRL ELIATSTNVKSLISLRLAESECHLTLN  
 19114559.y NDRILPSVLSPRDRVNVMKIGPETKPVPSKLSTALHAARKSTDGLSGRSRKVWREESQ SFVPTKSASAVEQVEFQLIRSLSANNTVS  
 25742783.m PDRPKEEPRKEVVRRETNEAEIACHELDLQQ LTVNASKP-ERGLVR  
 17541716.w EETSEIRRFKVTECAASSFGDELQLOAQ IISHLONVVASKNKSSTR  
 22779889.m HDLKVKSTTQQPSKHRDAEPPQPPPTTVARSQTSANEKQQIGDAIRMIVRGTGSCSSS ECLEDSTMGSVADITVARVLR  
 PLK2.h HDLKKTTSITQPSKHRDEELQPPPTFAKSGTSAVENQQIGDAIRMIVRGTGSCSSS ECLEDSTMGSVADITVARVLR  
 34870279.m SGLMRTSIGHPDVRPEAAPASALAPSVLVET-AAEEDSS PRGTPASSGDG-  
 PLK3.h SGLMRTSVDGHQDARPEAAPASGHPVPSLVEV-APEEDSS PRGTPASSGDG-  
 23956070.m SGLMRTSIGHPDVRPEAAPVSVGQAPASLJET-AAEEDSS PRGTPASSGDG-  
 34862304.m PGEESTEPDIMEASNEEGALCETESRHLLLT LGTPTDFAD-  
 34856879.m ANSGRGRVIEDAERHHSYRLRAHSDRSPSN-QSRAKYYSVERCHSVEMLSKRRS LDETKHNSNHICLGKTPFPFFADQTPOMEIVQWFGNLQMN-GETSEHNTISPNRDFOYDWDQ-DTLRNWTDTDRAKNSDNANVHAPQLSRMTKYMTHHH  
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 2phk\_A  
 1kwp\_A DYEQIKIKKIEDASNPLLKKRKKARALEAAALAH-  
 19075073.y  
 lia8\_A  
 24649331.f  
 17538163.w SRGFDSERGRERDRDSCRTVPPSRDRNRSQIWPIMDRLEGQRVCTAGGRY-EVELDTRCR FEVAACQNFVKRILIVEVDEMVTQVYV

810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 100  
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 19114559.y RLSXVGNMKSDIWESVKTALKIGMALEAHALTSEDADSEPVLFIRWYDYNKFCOLYIETSDGTLGCGILRQMPTNDAKSPMLPPACLLVHDGERHHRKNDLSYSPDRHQLPMPGESHYFYENNGEDGLS-RVRFDRNPKFVVGPDGVAAKLSACKDVFDRKREBIVWLWKFENYMLAXGRLEEGEG-DEAIPIP  
 25742783.m QEEAEADPACTP IFWFWKWDYDSKQYGLGQCDNNSVGLFNDNS TSLLSADEEVYEAH-KDTEIUKPYIYPA-  
 17541716.w FGLNHSPEATP IFWFWKWDYDSKQYGLGQCDNNSVGLFNDNS TSLLSADEEVYEAH-KDTEIUKPYIYPA-  
 22779889.m GCLENMPEACDIPKEQLSTS-TFCWVWKWDYDSNKYGFYVQSLSTEIDLYVLFNND TSLLSADEEVYEAH-KDTEIUKPYIYPA-  
 13929172.m GCLENMPEACDIPKEQLSTS-TFCWVWKWDYDSNKYGFYVQSLSTEIDLYVLFNND TSLLSADEEVYEAH-KDTEIUKPYIYPA-  
 PLK2.h GCLENMPEACDIPKEQLSTS-TFCWVWKWDYDSNKYGFYVQSLSTEIDLYVLFNND TSLLSADEEVYEAH-KDTEIUKPYIYPA-  
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 27501466.m KDRIMT- EYQKDNLNLNLNKFRD-  
 PLK4.h KPEIIQQECVFGSDPLSEQKTRGMPEPPNGYQNRITLRSITSPLVAHRIKPRQKIKKAVVSIDDEEVCVELLKEYA-SQEYVK-  
 21358073.f EDRISVP- PLNTRKLLPTRYKTKNAIMSIEPENGWVIEFLKFRPTYEDRIN-  
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 2phk\_A  
 1kwp\_A  
 19075073.y EIVKILRQVWYERKSGVYGHYFSDHR-  
 lia8\_A  
 24649331.f  
 17538163.w HR-IPDRTVRGRNGEEELITLTNNPFVFTSYQSMKREVONDYMRLOKAVATISGR-SVIWRKDNGEINFNCIDGIAQKAVSG-ITLTKVN

1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 120  
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 6323643.y REEYHKDD-VFLLRYTFRYKPFVMFELSDGTFQ-FKDHRKHMASDGGKLVTYIIPSHE- STTYPVEVLYKVEGTP-  
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 25742783.m PREGDELARLPYLTWRTRSLAIIHLNSLNGTQINPQHPLQAEAVTYINERKDF- FRVYLRSLLEBVEGCC-  
 17541716.w PPLRN-FARLPTIQNWFEKTSAVIFHLSNGTQINPQHPLQAEAVTYINERKDF- VSTFTFANILITNSCP-  
 22779889.m SVTDIRKR- LYLLQWLKSDKALMMLFLNDGTQFVNFYHDHKLIIICCSQNEEYLITYINERD- RISTTFRLLTLLMGSCS-  
 13929172.m SVTDIRKR- LYLLQWLKSDKALMMLFLNDGTQFVNFYHDHKLIIICCSQNEEYLITYINERD- RISTTFRLLTLLMGSCS-  
 PLK2.h SVTDIRKR- LYLLQWLKSDKALMMLFLNDGTQFVNFYHDHKLIIICCSQNEEYLITYINERD- SELKNRMEYALNMLQQRN-  
 34870279.m SVEEEVPAFPPLLQWVKTQDALLMFLSDGTQFVNFYHDHKLIIICCSQNEEYLITYINERD- REACIYIYASHLRLQLGCS-  
 PLK3.h SVEEEVPAFPPLLQWVKTQDALLMFLSDGTQFVNFYHDHKLIIICCSQNEEYLITYINERD- PDLRQRLYALRDRDSPA-  
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 2phk\_A  
 1kwp\_A  
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 24649331.f  
 17538163.w EVVYKYLRFECNLNGMDRGMVCPPIVFSAGTMVGSPPSSLMSPGSSQTSRFFPSNLNNOPSLVPHSAFLYKPTSSQARASSANQRRVSTDENS- SVAPSKYKIIDTTOKVRSIQAOTGRVIRCSKADOFITDPAIRDDORFNRDTRVDRDASEMILHTLCERMRKLH-

1210 1220 1230 1240 1250 1260 1270 1280

39965586.y PDIIDDTKKP  
32422413.y EEVDENAKKR  
6323643.y  
19114559.y  
25742763.m  
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22779889.m  
13929172.m  
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34862304.m  
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27501454.m QLVVQAGVSS--ISYTSPDQQTTRYGENEKLPEYIKQKLQCLSSILLMFSNP--TPNFQ  
27501466.m PLK4.h QLVVQAGVSS--ISYTSPNQQTTRYGENEKLPEYIKQKLQCLSSILLMFSNP--TPNFH  
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